

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/14243

**A. CLASSIFICATION OF SUBJECT MATTER**

Int.Cl' C12N15/09, C12N5/10, A61P3/10, C12P21/02

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl' C12N15/09, C12N5/10, A61P3/10, C12P21/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
MEDLINE, BIOSIS/WPI (DIALOG)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Shimon Efrat et al., Cell replacement therapy for type 1 diabetes, Trends in Molecular Medicine, 2002, Vol.8, No.7, pages 334 to 339	1-4
X	Patrick Salmon et al., Reversible immortalization of human primary cells by lentivector-mediated transfer of specific genes, Molecular Therapy, 2000, Vol.2, No.4, pages 404 to 414	1-4
X	Tanya L. et al., Telomerase activity is sufficient to allow transformed cells to escape from crisis, Molecular and Cellular Biology, 1999, Vol.19, pages 1864 to 1870	1-4

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	
"A"	document defining the general state of the art which is not considered to be of particular relevance
"E"	earlier document but published on or after the international filing date
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O"	document referring to an oral disclosure, use, exhibition or other means
"P"	document published prior to the international filing date but later than the priority date claimed
"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&"	document member of the same patent family

Date of the actual completion of the international search 29 January, 2004 (29.01.04)	Date of mailing of the international search report 10 February, 2004 (10.02.04)
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
Facsimile No.	Telephone No.

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Jiyue Zhu et al., Telomerase extends the lifespan of virus-transformed human cells without net telomere lengthening, Proc.Natl.Acad.Sci., 1999, Vol.96, pages 3723 to 3728	1-4
A	Karen A. et al., Reversible immortalization of mammalian cells mediated by retroviral transfer and site-specific recombination, Proc.Natl.Acad. Sci., 1996, Vol.93, pages 8971 to 8976	1-4
A	Michael J. et al., Conditional immortalization of freshly isolated human mammary fibroblasts and endothelial cells, Proc.Natl.Acad.Sci., 2001, Vol.98, pages 646 to 651	1-4
A	Barry R. et al., Immortalisation of human ovarian surface epithelium with telomerase and temperature-sensitive SV40 large T antigen, Experimental Cell Research, 2003, Vol.288, pages 390 to 402	1-4